UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/020,130	12/18/2001	Takashi Mochizuki	Q67762	7342

23373   7590   12/30/2005

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EXAMINER
DEAN, RAYMOND S

ART UNIT	PAPER NUMBER
2684	

DATE MAILED: 12/30/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) ☒ Responsive to communication(s) filed on *27 October 2005*.

2a) ☒ This action is **FINAL**.   2b) ☐ This action is non-final.

3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) ☒ Claim(s) *1 - 10 and 18 - 28* is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) ☐ Claim(s) _____ is/are allowed.

6) ☒ Claim(s) *1 - 10 and 18 - 28* is/are rejected.

7) ☐ Claim(s) _____ is/are objected to.

8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) ☐ The specification is objected to by the Examiner.

10) ☒ The drawing(s) filed on *18 December 2001* is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a) ☒ All   b) ☐ Some * c) ☐ None of:

      1. ☐ Certified copies of the priority documents have been received.

      2. ☐ Certified copies of the priority documents have been received in Application No. _____.

      3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
    Paper No(s)/Mail Date _____.

4) ☐ Interview Summary (PTO-413)
    Paper No(s)/Mail Date. _____.

5) ☐ Notice of Informal Patent Application (PTO-152)

6) ☐ Other: _____.

DETAILED ACTION

Response to Arguments

1.   Applicant's arguments with respect to claims 1, 6, 18, and 19 have been considered but are moot in view of the new ground(s) of rejection.

Regarding Claims 1, 18

Examiner respectfully disagrees with Applicants' assertion that Dabak does not teach the other base stations transmitting user data in said downlink signals to the mobile terminal after the identification of the selected first base station is transmitted. Dabak, as asserted in the Office Action dated July 29, 2005 (See lines 6 – 12 of the rejection of Claim 1), teaches base stations (504,506) that are not selected. These base stations will transmit data in the subsequent data frames. The subsequent data frames are the frames after the frame during which the transmission of data from said base stations is terminated. The transmission of data is terminated for the next frame, which means that there will be data transmissions in the subsequent frames following said next frame (See Column 6 lines 2 – 7, lines 64 – 67, Column 7 lines 1 – 4).

Toskala et al. (US 6,650,905), hereafter Toskala, teaches transmitting, from the mobile terminal, identification of the selected first base station to the first base station and other base stations not selected by said mobile terminal (Column 10 lines 22 – 25). Toskala further teaches sending information, from the mobile terminal to the other base stations, to modify the transmission power of the downlink signals of the base stations based on the determined transmission power of the downlink signals from said other

base stations not selected by said mobile terminal (Column 10 lines 30 – 38, lines 43 –

50, See also Document 3G TS 25.214 v 3.1.1 Sections 5.2.1.1 and 5.2.1.2). It would

have been obvious to one of ordinary skill in the art at the time the invention was made

to use the power control method taught by Toskala in the system of Dabak for the

purpose of controlling transmission power in SSDT mode as taught by Toskala.

Regarding Claims 6, 19

Examiner respectfully disagrees with Applicants assertions regarding Dabak for

the same reasons as set forth above.

Roxbergh (US 6,553,016), hereafter Roxbergh, teaches demodulating, at the

mobile terminal, user data from said selected first base station by combining the

downlink signal of the selected first base station and the downlink signals from said

other base stations not selected by said mobile terminal (Figures 2A, 2B, Column 3

lines 66 – 67, Column 4 lines 1 – 12, lines 21 – 27, in one case base station 10 is the

selected base station and in another case base station 11 is the selected base station).

It would have been obvious to one of ordinary skill in the art at the time the invention

was made to use the diversity handover method taught by Roxbergh as an alternative

handoff means in the system of Dabak in view of Toskala thereby insuring a handover

operation without any perceptible disturbance in the voice or data communications as

taught by Roxbergh.

Claim Rejections - 35 USC § 103

2.   The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set
> forth in section 102 of this title, if the differences between the subject matter sought to be patented and
> the prior art are such that the subject matter as a whole would have been obvious at the time the
> invention was made to a person having ordinary skill in the art to which said subject matter pertains.
> Patentability shall not be negatived by the manner in which the invention was made.

3.   Claims 1, 18, 25, and 27 are rejected under 35 U.S.C. 103(a) as being

unpatentable over Dabak (US 6,862,275) in view of Toskala et al. (US 6,650,905).

Regarding Claim 1, Dabak teaches a transmission power control method for

controlling the transmission power of downlink signals from base stations to a mobile

terminal in a mobile communication system, comprising the steps of: selecting, at the

mobile terminal, a first base station, said first base station transmitting user data in a

downlink signal with a preferred reception quality (Column 5 lines 50 – 67, Column 6

lines 1 – 11); determining, at the mobile terminal, transmission power of downlink

signals from other base stations not selected by said mobile terminal, said other base

stations transmitting user data in said downlink signals to the mobile terminal after the

identification of the selected first base station is transmitted (Column 6 lines 2 – 7, lines

64 – 67, Column 7 lines 1 – 4, the base stations (504,506) are the base stations that are

not selected, said base stations will resume transmitting data symbols in the

subsequent data frames, which are the frames after the base station (502) is selected);

sending information, from the mobile terminal to the base station, to modify the

transmission power of the downlink signals of the base station based on the determined

transmission power of the downlink signals from said base station (Column 5 lines 32 – 49).

Dabak does not teach transmitting, from the mobile terminal, identification of the selected first base station to the first base station and other base stations not selected by said mobile terminal, sending information from the mobile terminal to the other base stations, to modify the transmission power of the downlink signals of the base stations based on the determined transmission power of the downlink signals from said base stations not selected by said mobile terminal.

Toskala teaches transmitting, from the mobile terminal, identification of the selected first base station to the first base station and other base stations not selected by said mobile terminal (Column 10 lines 22 – 25). Toskala further teaches sending information, from the mobile terminal to the other base stations, to modify the transmission power of the downlink signals of the base stations based on the determined transmission power of the downlink signals from said other base stations not selected by said mobile terminal (Column 10 lines 30 – 38, lines 43 – 50, See also Document 3G TS 25.214 v 3.1.1 Sections 5.2.1.1 and 5.2.1.2).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the power control method taught by Toskala in the system of Dabak for the purpose of controlling transmission power in SSDT mode as taught by Toskala.

Regarding Claim 18, Dabak teaches a mobile terminal that controls transmission power of downlink signals from base stations in a mobile communication system,

comprising: base station selection means for selecting a first base station that is

transmitting user data in a downlink signal with a preferred reception quality (Column 5

lines 50 – 67, Column 6 lines 1 – 11), downlink signal weight decision means for

determining transmission power of downlink signals from other base stations not

selected by said mobile terminal, said other base stations transmitting user data in said

downlink signals to the mobile terminal after the identification of the selected first base

station is transmitted (Column 6 lines 2 – 7, lines 64 – 67, Column 7 lines 1 – 4, the

base stations (504,506) are the base stations that are not selected, said base stations

will resume transmitting data symbols in the subsequent data frames, which are the

frames after the base station (502) is selected);

Dabak does not teach transmission means for transmitting, from the mobile

terminal, identification of the selected first base station to the first base station and other

base stations not selected by said mobile terminal and a downlink TPC command

decision means for using the downlink signals from said other base stations to decide

whether transmission power of said other base stations is excessive or insufficient, and

to instruct an increase or decrease of said transmission power based on the determined

transmission power of the downlink signals from said other base stations not selected

by said mobile terminal.

Toskala teaches transmission means for transmitting, from the mobile terminal,

identification of the selected first base station to the first base station and other base

stations not selected by said mobile terminal (Column 10 lines 22 – 25) and a downlink

TPC command decision means for using the downlink signals from said other base

stations to decide whether transmission power of said other base stations is excessive

or insufficient, and to instruct an increase or decrease of said transmission power based

on the determined transmission power of the downlink signals from said other base

stations not selected by said mobile terminal (Column 10 lines 30 – 38, lines 43 – 50,

See also Document 3G TS 25.214 v 3.1.1 Sections 5.2.1.1 and 5.2.1.2).

It would have been obvious to one of ordinary skill in the art at the time the

invention was made to use the power control method taught by Toskala in the system of

Dabak for the purpose of controlling transmission power in SSDT mode as taught by

Toskala.

Regarding Claims 25, 27, Dabak in view of Toskala teaches all of the claimed

limitations recited in Claims 1, 18. Dabak further teaches wherein said other base

stations not selected by the mobile terminal transmit user data to the mobile terminal

and transmit pilot data after the identification of the selected first base station is

transmitted (Column 6 lines 2 – 7, lines 64 – 67, Column 7 lines 1 – 4, the base stations

(504,506) are the base stations that are not selected, said base stations will resume

transmitting data symbols in the subsequent data frames, which are the frames after the

base station (502) is selected). Toskala further teaches a downlink dedicated physical

channel and a downlink dedicated control channel (Column 10 lines 43 – 50).

4.   Claims 2 – 5 and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable

over Dabak (US 6,862,275) in view of Toskala et al. (US 6,650,905) as applied to

Claims 1, 18 above, and further in view of Mohebbi (US 6,603,971).

Regarding Claim 2, Dabak in view of Toskala teaches all of the claimed

limitations recited in Claim 1. Dabak in view of Toskala does not teach estimating uplink

reception quality of said other base stations.

Mohebbi teaches estimating uplink reception quality of base stations (Column 9

lines 12 – 15).

It would have been obvious to one of ordinary skill in the art at the time the

invention was made to use the estimation method taught by Mohebbi in the system of

Dabak in view of Toskala for the purpose of reducing the backhaul load in the fixed

network as taught by Mohebbi.

Regarding Claim 3, Dabak in view of Toskala and in further view of Mohebbi

teaches all of the claimed limitations recited in Claim 2. Mohebbi further teaches

wherein signal weights are determined for the downlink signals from said other base

stations based on the uplink reception quality (Column 6 lines 63 – 67, Column 7 lines 1

– 2, Column 9 lines 12 – 15, the base station that experiences the best uplink reception

quality can be the highest ranked base station, the ranking is the weighting).

Regarding Claim 4, Dabak in view of Toskala and in further view of Mohebbi

teaches all of the claimed limitations recited in Claim 2. Dabak further teaches a base

station that is transmitting user data to the mobile terminal after the first base station is

selected (Column 6 lines 2 – 5, lines 64 – 67, Column 7 lines 1 – 4, the base stations

(504,506) are the base stations that are not selected, said base stations will resume

transmitting data symbols in the subsequent data frames, which are the frames after the

base station (502) is selected). Toskala further teaches calculating a correlation

between an increase or decrease in transmission power instructed by a transmission

power control, and an increase or decrease in transmission power of a downlink signal

received from a base station wherein said correlation is calculated based on a

difference of the increase or decrease of the transmission power instructed and the

increase or decrease in the transmission power of the downlink signal received (Column

10 lines 30 – 38, lines 43 – 50, See also Document 3G TS 25.214 v 3.1.1 Sections

5.2.1.1 and 5.2.1.2, there is a correlation between the transmission power control and

the transmission power of the downlink signal because the transmit power control

controls the transmission power of the downlink, in a closed loop power control system,

such as the one used according to the 3G TS 25.214 v 3.1.1, there will be a difference

between the actual change in transmission power and the TPC step due to the

characteristics of the electronic circuits used in said closed loop method).

Regarding Claims 5, 23, Dabak in view of Toskala teaches all of the claimed

limitations recited in Claims 1, 18. Toskala further teaches a signal obtained by

combining downlink signals from said other base stations is used to determine whether

the transmission power of the other base stations is excessive or insufficient (Figure 11,

Column 7 lines 66 – 67, Column 8 lines 1 – 32, Column 10 lines 43 – 50).

Dabak in view of Toskala does not teach weighted downlink signals.

Mohebbi teaches weighted downlink signals (Column 6 lines 63 – 67, Column 7

lines 1 – 2, the ranking is the weighting).

It would have been obvious to one of ordinary skill in the art at the time the

invention was made to use the weighting method taught by Mohebbi in the system of

Dabak in view of Toskala for the purpose of reducing the backhaul load in the fixed

network as taught by Mohebbi.

5.   Claims 6, 19, 26, and 28 are rejected under 35 U.S.C. 103(a) as being

unpatentable over Dabak (US 6,862,275) in view of Toskala et al. (US 6,650,905) and in

further view of Roxbergh (US 6,553,016).

Regarding Claim 6, Dabak teaches a receiving method for demodulating user

data in a downlink signal form base stations to a mobile terminal in a mobile

communications system, comprising the steps of: selecting, at the mobile terminal, a

first base station, said first base station transmitting user data in a downlink signal

having a preferred reception quality (Column 5 lines 50 – 67, Column 6 lines 1 – 11),

other base stations transmitting user data after the identification of the selected first

base station is transmitted (Column 6 lines 2 – 7, lines 64 – 67, Column 7 lines 1 – 4,

the base stations (504,506) are the base stations that are not selected, said base

stations will resume transmitting data symbols in the subsequent data frames, which are

the frames after the base station (502) is selected).

Dabak does not teach transmitting, from the mobile terminal, identification of the

selected first base station to the first base station and other base stations not selected

by said mobile terminal and using the downlink signals, from said other base stations

not selected by said mobile terminal to demodulate, at the mobile terminal, user data

from said selected first base station by combining the downlink signal of the selected

first base station and the downlink signals form said other base stations not selected by

said mobile terminal.

Toskala teaches transmitting, from the mobile terminal, identification of the

selected first base station to the first base station and other base stations not selected

by said mobile terminal (Column 10 lines 22 – 25).

It would have been obvious to one of ordinary skill in the art at the time the

invention was made to use the base station selection method taught by Toskala in the

system of Dabak as an alternative means for informing wireless network entities as to

what base station has been selected during SSDT mode as taught by Toskala.

Dabak in view of Toskala does not teach using the downlink signals, from said

other base stations not selected by said mobile terminal to demodulate, at the mobile

terminal, user data from said selected first base station by combining the downlink

signal of the selected first base station and the downlink signals form said other base

stations not selected by said mobile terminal.

Roxbergh teaches demodulating, at the mobile terminal, user data from said

selected first base station by combining the downlink signal of the selected first base

station and the downlink signals from said other base stations not selected by said

mobile terminal (Figures 2A, 2B, Column 3 lines 66 – 67, Column 4 lines 1 – 12, lines

21 – 27, in one case base station 10 is the selected base station and in another case

base station 11 is the selected base station).

It would have been obvious to one of ordinary skill in the art at the time the

invention was made to use the diversity handover method taught by Roxbergh as an

alternative handoff means in the system of Dabak in view of Toskala thereby insuring a

handover operation without any perceptible disturbance in the voice or data

communications as taught by Roxbergh.

Regarding Claim 19, Dabak teaches a mobile terminal for receiving user data in

the downlink signal from base stations in a mobile communication system, comprising:

base station selecting means for selecting, a first base station that is transmitting user

data in a downlink signal with a preferred downlink reception quality (Column 5 lines 50

– 67, Column 6 lines 1 – 11), downlink signal weight decision means for determining

transmission power of downlink signals from other base stations not selected by said

mobile terminal, said other base stations transmitting user data in said downlink signals

to the mobile terminal after the identification of the selected first base station is

transmitted (Column 6 lines 2 – 7, lines 64 – 67, Column 7 lines 1 – 4, the base stations

(504,506) are the base stations that are not selected, said base stations will resume

transmitting data symbols in the subsequent data frames, which are the frames after the

base station (502) is selected);

Dabak does not teach transmission means for transmitting, from the mobile

terminal, identification of the selected first base station to the first base station and other

base stations not selected by said mobile terminal and data demodulating means for

using downlink signals from said other base stations to demodulate user data from said

first base station by combining the downlink signal of the selected first base station and

the downlink signals from said other base stations not selected by said mobile terminal.

Toskala teaches transmission means for transmitting, from the mobile terminal, identification of the selected first base station to the first base station and other base stations not selected by said mobile terminal (Column 10 lines 22 – 25).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the base station selection method taught by Toskala in the system of Dabak as an alternative means for informing wireless network entities as to what base station has been selected during SSDT mode as taught by Toskala.

Dabak in view of Toskala does not teach data demodulating means for using downlink signals from said other base stations to demodulate user data from said first base station by combining the downlink signal of the selected first base station and the downlink signals from said other base stations not selected by said mobile terminal.

Roxbergh teaches data demodulating means for using downlink signals from said other base stations to demodulate user data from said first base station by combining the downlink signal of the selected first base station and the downlink signals from said other base stations not selected by said mobile terminal (Figures 2A, 2B, Column 3 lines 66 – 67, Column 4 lines 1 – 12, lines 21 – 27, in one case base station 10 is the selected base station and in another case base station 11 is the selected base station).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the diversity handover method taught by Roxbergh as an alternative handoff means in the system of Dabak in view of Toskala thereby insuring a handover operation without any perceptible disturbance in the voice or data communications as taught by Roxbergh.

Regarding Claims 26, 28, Dabak in view of Toskala and in further view of
Roxbergh teaches all of the claimed limitations recited in Claims 6, 19. Dabak further
teaches wherein said other base stations not selected by the mobile terminal transmit
user data to the mobile terminal and transmit pilot data after the identification of the
selected first base station is transmitted (Column 6 lines 2 – 7, lines 64 – 67, Column 7
lines 1 – 4, the base stations (504,506) are the base stations that are not selected, said
base stations will resume transmitting data symbols in the subsequent data frames,
which are the frames after the base station (502) is selected). Toskala further teaches a
downlink dedicated physical channel and a downlink dedicated control channel (Column
10 lines 43 – 50).

6.   Claims 7 – 10, 20 – 22, and 24 are rejected under 35 U.S.C. 103(a) as being
unpatentable over Dabak (US 6,862,275) in view of Toskala (US 6,650,905) in view of
Roxbergh (US 6,553,016), as applied to Claims 6, 19 above, and further in view of
Mohebbi (US 6,603,971).

Regarding Claims 7, 20, Dabak in view of Toskala and in further view of
Roxbergh teaches all of the claimed limitations recited in Claims 6, 19. Dabak in view of
Toskala and in further view of Roxbergh does not teach determining estimated uplink
reception quality of said other base stations.

Mohebbi teaches determining estimated uplink reception quality of base stations
(Column 9 lines 12 – 15).

It would have been obvious to one of ordinary skill in the art at the time the

invention was made to use the estimation method taught by Mohebbi in the system of

Dabak in view of Toskala and in further view of Roxbergh for the purpose of reducing

the backhaul load in the fixed network as taught by Mohebbi.

Regarding Claims 8, 21, Dabak in view of Toskala in view of Roxbergh and in

further view of Mohebbi teaches all of the claimed limitations recited in Claims 7, 20.

Mohebbi further teaches wherein signal weights are determined for the downlink signals

from said other base stations based on the uplink reception quality (Column 6 lines 63 –

67, Column 7 lines 1 – 2, Column 9 lines 12 – 15, the base station that experiences the

best uplink reception quality can be the highest ranked base station, the ranking is the

weighting).

Regarding Claims 9, 22, Dabak in view of Toskala in view of Roxbergh and in

further view of Mohebbi teaches all of the claimed limitations recited in Claims 7, 20.

Toskala further teaches calculating a correlation between an increase or decrease in

transmission power instructed by a transmission power control, and an increase or

decrease in transmission power of a downlink signal received from a base station that is

transmitting user data to the mobile terminal after the first base station is selected

wherein said correlation is calculated based on a difference of the increase or decrease

of the transmission power instructed and the increase or decrease in the transmission

power of the downlink signal received (Column 10 lines 30 – 38, lines 43 – 50, See also

Document 3G TS 25.214 v 3.1.1 Sections 5.2.1.1 and 5.2.1.2, there is a correlation

between the transmission power control and the transmission power of the downlink

signal because the transmit power control controls the transmission power of the downlink, in a closed loop power control system, such as the one used according to the 3G TS 25.214 v 3.1.1, there will be a difference between the actual change in transmission power and the TPC step due to the characteristics of the electronic circuits used in said closed loop method)

Regarding Claims 10, 24, Dabak in view of Toskala and in further view of Roxbergh teaches all of the claimed limitations recited in Claims 6, 19. Roxbergh further teaches wherein a signal obtained by combining downlink signals from the other base stations is used for demodulating the user data from said first base station (Figures 2A, 2B, Column 3 lines 66 – 67, Column 4 lines 1 – 12, lines 21 – 27, in one case base station 10 is the selected base station and in another case base station 11 is the selected base station).

Dabak in view of Toskala and in further view of Roxbergh does not teach weighted downlink signals.

Mohebbi teaches weighted downlink signals (Column 6 lines 63 – 67, Column 7 lines 1 – 2, the ranking is the weighting).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the weighting method taught by Mohebbi in the system of Dabak in view of Toskala and in further view of Roxbergh for the purpose of reducing the backhaul load in the fixed network as taught by Mohebbi.

Conclusion

7.   Applicant's amendment necessitated the new ground(s) of rejection presented in

this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37
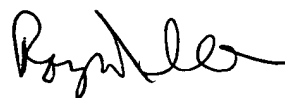
CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within

TWO MONTHS of the mailing date of this final action and the advisory action is not

mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Raymond S. Dean whose telephone number is 571-272-

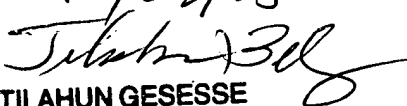7877. The examiner can normally be reached on 6:00-2:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Nay A. Maung can be reached on 571-272-7882. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Raymond S. Dean
December 23, 2005

TILAHUN GESESSE
PRIMARY EXAMINER